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14mar02 14:00:31 User019525 Session D1189.1
Sub account: 272/068

File 351:Derwent WPI 1963-2001/UD,UM &UP=200217

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*File 351: Please see HELP NEWS 351 for details about U.S. provisional applications.

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?s pn=ep 199672
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DIALOG(R)File 351:Derwent WPI

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WPI Acc No: 1986-286380/ 198644

New sulphonic acid ester(s) of oxime(s) - used in prodn. of polymers and copolymers for use in photochemical prodn. of images

Patent Assignee: CIBA GEIGY AG (CIBA)

Inventor: BERNER G; DEMMER C G; DIETLIKER K; HUNZIKER M; RUTSCH W

Number of Countries: 012 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 199672	A	19861029	EP 86810164	A	19860407	198644 B
JP 61251652	A	19861108	JP 8684852	A	19860412	198651
US 4736055	A	19880405	US 86851032	A	19860411	198816
EP 199672	B	19880601				198822
DE 3660255	G	19880707				198828
CA 1257868	A	19890725				198935

Priority Applications (No Type Date): CH 851580 A 19850412

Cited Patents: DE 2257062; EP 139609; EP 44115; FR 2236843; US 4289865; US 4353787; US 4504372

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 199672 A G 27

Designated States (Regional): BE CH DE FR GB IT LI NL SE

EP 199672 B G

Designated States (Regional): BE CH DE FR GB IT LI NL SE

Abstract (Basic): EP 199672 A

New sulphonic acid esters of oximes have formula (I) m = 0 or 1; x, y = 1 or 2; R1 = 1-12C alkyl, 1-4C haloalkyl, 5-12C cycloalkyl, opt. subst. by halogen, 1-16C alkyl, 1-4C alkoxy, phenoxy, Ph or NO2-substd. 6-10C aryl, furyl, thienyl, 7-12C aralkyl, 1-8C alkoxy, 5-8C cycloalkoxy, phenoxy or CN; R2 has 1 of the meanings of R1, or is 2-6C alkanoyl, benzoyl, 2-5C alkoxycarbonyl, phenoxycarbonyl, -R3R4, morpholino or piperidine; or R1 and R2, with the atoms to which they are attached, form a 5-8 member ring, opt. fused to 1 or 2 benzo gps.; R3 = H, 1-12C alkyl, Ph, 2-6C alkanoyl or benzoyl; R4 = H, 1-12C alkyl or cyclohexyl; Y = a polymerisable ethylenically unsatd. gp. or epoxy

gp., or OH, NHR5, COOH, COOR6, COCl, CH2Hal, SO2Cl or NCO; R5 = H, 1-6C alkyl or Ph-; R6 = 1-6C alkyl or Ph; Hal = Cl or Br; Z = an organic bridging gp. of valency x+y, linking the SO2 gp. to Y.

USE - Polymers with gps. of formula (II) in the side chain, obtd. by polymerising I, or copolymerising with (meth)acrylic acid or alkyl (meth)acrylates, are claimed. Polymers obtd. by reacting a polymer contg. an OH gp. with I (Y = COCl, SO2Cl or NCO), esp. by reacting a novolak resin with I (Y = COCl) are also claimed. Claimed appls. are photochemical prodn. of images, esp. (i) exposure of a film of the polymer to short-wave light through a mask and development in an aq.-alkaline developer soln., (ii) irradiation of the film with a laser beam and development with an aq.-alkaline soln., (iii) hardening of acid-hardening baking lacquers by addn. of I or the polymer, irradiation with short-wave light and heating, and (iv) addn. of the polymer to the lacquer, irradiation with UV light, and heating at 80-120 deg. C.

Abstract (Equivalent): EP 199672 B

New sulphonic acid esters of oximes have formula (I) m = 0 or 1; x,y = 1 or 2; R1 = 1-12C alkyl, 1-4C haloalkyl, 5-12C cycloalkyl, opt. substd. by halogen, 1-16C alkyl, 1-4C alkoxy, phenoxy, Ph or NO2-substd. 6-10C aryl, furyl, thienyl, 7-12C aralkyl, 1-8C alkoxy, 5-8C cycloalkoxy, phenoxy or CN; R2 has 1 of the meanings of R1 or is 2-6C alkanoyl, benzoyl, 2-5C alkoxycarbonyl, phenoxycarbonyl, -R3R4, morpholino or piperidine; or R1 and R2, with the atoms to which they are attached, form a 5-8 member ring, opt. fused to 1 or 2 benzo gps.; R3 = H, 1-12C alkyl, Ph, 2-6C alkenoyl or benzoyl; R4 = H, 1-12C alkyl or cyclohexyl; Y = a polymerisable ethylenically unsatd. gp. or epoxy gp., or OH, NHR5, COOH, COOR6, COCl, CH2Hal, SO2Cl or NCO; R5 = H, 1-6C alkyl or Ph-; R6 = 1-6C alkyl or Ph; Hal = Cl or Br; Z = an organic bridging gp. of valency x+y, linking the SO2 gp. to Y.

Polymers with gps. of formula (II) in the side chain, obtd. by polymerising I, or copolymerising with (meth)acrylic acid or alkyl (meth)acrylates, are claimed. Polymers obtd. by reacting a polymer contg. an OH gp. with I (Y = COCl, SO2Cl or NCO), esp. by reacting a novolac resin with I (Y = COCl) are also claimed. Claimed applns. are photochemical prodn. of images, esp. (i) exposure of a film of the polymer to short-wave light through a mask and development in an aq.-alkaline developer soln. (ii) irradiation of the film with a laser beam and development with an aq.alkaline soln. (iii) hardening of acid-hardening baking lacquers by addn. of I or the polymer, irradiation with short-wave light and heating, and (iv) addn. of the polymer to the lacquer, irradiation with UV light, and heating at 80-120 deg.C. (27pp)

Abstract (Equivalent): US 4736055 A

New oxime sulphonates have formula (R'-(CO)m-C(R2)=N-O-SO2)xZ -(Y)y (I) in which m is 0 or 1, X is 1 or 2, Y is 1 or 2, R' is 1-12C alkyl, 1-4C haloalkyl, 5-12C cycloalkyl or opt. substd. 6-10C aryl; R2 has one of the meanings indicated for R' or R2 is 2-6C alkanoyl, benzoyl, 2-5C alkoxycarbonyl, phenoxycarbonyl, -NR3R4, morpholino or piperidino or R1 and R2, together with the atoms to which they are attached, form a 5- or 8- membered ring which may be fused with 1 or 2 radicals of the benzene series; R3 is H, 1-12C alkyl, phenyl, 2-6C alkanoyl or benzoyl; R4 is H, 1-12C alkyl or cyclohexyl; Y is a polymerisable ethylenically unstad. gp. selected from a gp. including e.g. vinyloxy, or Y is an epoxide gp. selected from a gp. including e.g. a gp. of formula (II), or Y is OH, -NHR5, -COOH, -COOR6, -COCl, -SO2Cl or -NCO gps.; R5 is H, 1-6C lkyl or phenyl; R6 is H, 1-6C alkyl or phenyl; T6 is 1-6C alkyl or

phenyl; and Z is a 2-, 3- or 4-valent aromatic or aromatic-aliphatic gp. selected from the gp. including e.g. p-phenylene, or Z is 1-12C alkylene, -CH₂CH₂OCH₂CH₂-, -(CH₂CH₂O)₂CH₂CH₂-, -CH₂CH₂SCH₂CH₂- or -CH₂CH₂NHCH₂CH₂- or Z is a (cyclo)aliphatic gp. selected from the gp. including e.g. cyclohexan-1,4-diyl.

USE - Cpds. (I) are useful in the prodn. of polymers useful for the photochemical prodn. of images. (17pp)f

Derwent Class: A41; E19; G06; P83; P84

International Patent Class (Additional): C07C-131/00; C07C-143/68; C07C-161/00; C07D-207/44; C07D-295/12; C07D-333/22; C08F-028/00; C08F-220/38; G03C-001/70; G03F-007/26